

ROOM AIR CONDITIONER

 INDOOR UNIT
 OUTDOOR UNIT

 AQ12WHWE
 UQ12WHWE

 AQ12WHWED
 UQ12WHWED

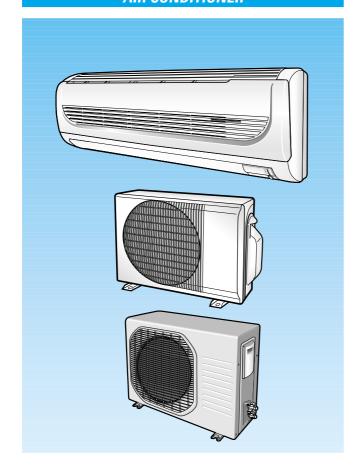
 AQ09W8WE
 UQ09W8WE

 SH12ZWHD
 SH12ZWHDX

 SH09ZW8
 SH09ZW8X

SERVICE Manual

AIR CONDITIONER



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1. Product Specifications

1-1 Table

		Model	AQ12WHWE[D]/SH12ZWHD(X)		AQ09W8WE/SH09ZW8(X)			
Item					Indoor unit	Outdoor unit	Indoor unit	Outdoor unit
Туре					Wall-m	ounted	Wall-mounted	
	Cooling		-	1200	12000 BTU/h		2600 W	
	Heating		-	1300	0 BTU/h	2900 W		
	Dehumidifying	3		l/h	1	.2	0	.9
	Air Volume		Cooling	ma3/main	8.3	-	7.5	-
Perfor-	Air volume		Heating	m³/min	8.3	-	8.0	-
mance	Noise		Cooling	dB	41 / 39 / 37	53 / 53	38 / 36 / 34	51 / 51
	Noise		Heating	ub	41 / 39 / 37	53 / 53	38 / 36 / 34	51 / 51
	Energy Efficie	nov Patio	Cooling		10 B	TU/h	2.68	W/W
	Energy Efficie	ricy nalio	Heating	-	11.02	BTU/h	3.22	WW
	Power			V-Hz	1-220 /	240-50	1-220	/ 240-50
	Power Consu	motion	Cooling	w	12	200	9.	70
	Fower Consu	приоп	Heating	VV	1.	180	90	00
	Operating Cu	rrent	Cooling	Α	5	.3	4	.3
	Operating Ou	ii eiit	Heating	^	5.2		4	.0
Power	Power Factor	Dawer Factor		%	94.34		98	
	1 OWEI 1 actor	Heating		,0	94.55		97.8	
	Starting Current		Α	-		-		
			Length	m	2		2	
	Power Cord		Number of Core	Wire	3		3	3
			Capacity	Α	250V-10A		250V-10A	
	Ciliter Limension		Width x Height	mm	825 x 285 x 189	720 x 548 x 265	825 x 285 x 189	660 x 475 x 242
			x Depth	inch	32.5 x 11.2 x 7.44	28.4 x 21.6 x 10.4	32.5 x 11.2 x 7.44	26.0 x 18.7 x 9.53
	Weight(Net)			kg	8.1 33.2		7.8 26.0	
	Refrigerant P	ine	Liquid	mm x L(m)	ø12.7 x 5.0		ø 9.52 x 5.0	
	Tionigorani		GAS	mm x L(m)	ø6.35x 5.0		ø 6.35 x 5.0	
	Drain Hose			D x L(mm)	ø18 x 550		ø 18 x 550	
Size		Туре			48D129JUAEL		44B102JXAEL	
	Compressor	Motor	Туре		-		-	
			Rated Output		1206		1005	
	Oil Type				SUNISO-4	67SD/NOC	SUNISO-46	7SD/NOC
		Туре			Cross-flow	Propeller	Cross-flow	Propeller
	Blower	Motor	Туре		steel	steel	steel	steel
			Rated Output	W	15	50	15	50
Heat E	xchanger				2ROW 14STEP	1ROW 20STEP	2ROW 10STEP	1ROW 18STEP
Refrigerant Control Unit			CAPILLARY TUBE		CAPILLARY TUBE			
Freezer Oil Capacity cc			60	00	36	60		
Refrigerant to Change(R410A) g			87	70	65	50		
Protect	tion Device(OL	P)			RBC120	74-12500	RBC12	188-12500
Cooling	g Test Condition	1			INDOOR UNIT :	DB27°C WB19°C	OUTDOOR UNIT : DB35°C WB24°C	
Maxim	um Operation (Condition			INDOOR UNIT :	DB32°C WB23°C	OUTDOOR UNIT :	DB43°C WB26°C

2. Disassembly and Reassembly

Stop operation of the air conditioner and remove the power cord before repairing the unit.

2-1 Indoor Unit

No	Parts	Procedure	Remark
1	Front Grille	Stop the air conditioner operation and block the main power.	LITTER TO AN AND AND AND AND AND AND AND AND AND
		Open the Front Grille by pulling right and left sides of the hook.	
		3) Loosen 1 of the right screw and detach the Terminal Cover.4) Detach the thermistor from the Front Grille.	
		5) Loosen 2 fixing screws of Front Grille.	

No	Parts	Procedure	Remark
		6) Unlock 2 hooks to fix Panel Front and Tray Drain.	
		7) Unlock 3 hooks to fix Panel Front and Back-Body.	
2	Control-In (Main PCB)	Take all the connector of PCB upper side out. (Inclusion Power Cord) Detach the outdoor unit connection wire from the Terminal Block. Loosen 4 fixing screws of Ass'y Control-In.	
3	Tray Drain	1) Pull Tray Drain out from the Back Body.	

No	Parts	Procedure	Remark
4	Heat Exchanger	 Loosen 2 fixing earth screws of right side. Detach the Connection Pipe. Detach the Holder Pipe at the rear side. Loosen the 3 fixing screws of right and left side. Lifting the Heat Exchanger up a little to push the up side for separation from the indoor unit. 	
5	Fan Motor & Cross Fan	 Loosen the fixing screw and detach the Motor Holder. Detach the Fan Motor from the Fan. Detach the Fan From the left Holder Bearing. 	

2-2 Outdoor Unit

No	Parts	Procedure	Remark
1	Common Work	Loosen each 3 fixing screws on both right and left Cabinet-Side edge and a fixing screw on the Cabinet-Front lower to detach the Cabinet-Front.	
		Loosen 2 fixing screws of the Ass'y-Control.	F
		3) Loosen 6 fixing screws of the Cabinet-Side RH.	
		4) Loosen 2 fixing screws of the Cabinet-Side LF.	

No	Parts	Procedure	Remark
		5) Loosen 1 fixing Cable-Tie of the Cabinet-Side LF.	
2	Fan & Motor	Detach the Nut Flange.(Turn counterclock-wise because the screw is right-handed) Detach the Fan. Loosen 4 fixing screws to detach the Motor.	
3	Heat Exchanger	Loosen 2 fixing screws on both sides. Disassemble the pipe in both inlet and outlet with welding torch. Detach the Heat Exchanger.	
4	Compressor	 Loosen the Terminal Cover nut to open the Terminal Cover. Disassemble the cloth sound felt. Disassemble the pipe in both inlet and outlet of the Compressor with welding torch. Disassemble the pipe in both inlet and outlet of the Condenser with welding torch. Loosen the 3 bolts at the bottom. Detach the Compressor. 	

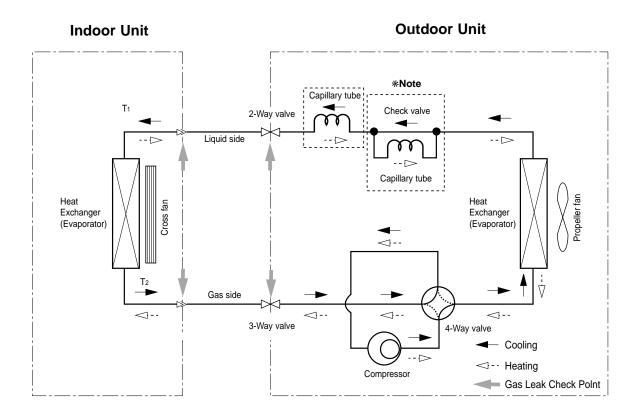
2-3 Outdoor Unit

No	Parts	Procedure	Remark
1	Common Work	Loosen 2 fixing screws on the Cover Valve and take off the Cover Valve.	
		Loosen 1 fixing screws of the Cover Control and take off the Cover Control.	
		Loosen 8 fixing screws of the Cabi-Front and take off the Cabi-Front.	
		4) Loosen the fixing screws of the Assy Control Out.	
		5) Loosen the fixing screws of the Assy Cabi-side and take off the Cabi-side.	

No	Parts	Procedure	Remark
2	Fan & Motor	Detach the Nut Flange.(Turn counterclock-wise because the screw is right-handed) Detach the Fan.	
		Loosen 4 fixing screws to detach the Motor. Loosen 2 fixing screws to detach the the Bracket of Motor.	
3	Heat Exchanger	Loosen 2 fixing screws on both sides. Disassemble the pipe in both inlet and outlet with welding torch. Detach the Heat Exchanger.	
4	Compressor	 Loosen the Terminal Cover nut to open the Terminal Cover. Disassemble the cloth sound felt. Disassemble the pipe in both inlet and outlet of the Compressor with welding torch. Disassemble the pipe in both inlet and outlet of the Condenser with welding torch. 	
		Loosen the 3 bolts at the bottom. Detach the Compressor.	

3. Refrigerating Cycle Diagram

3-1 Refrigerating Cycle Diagram



4. Set Up the Model Option

4-1 Setting Option Setup Method

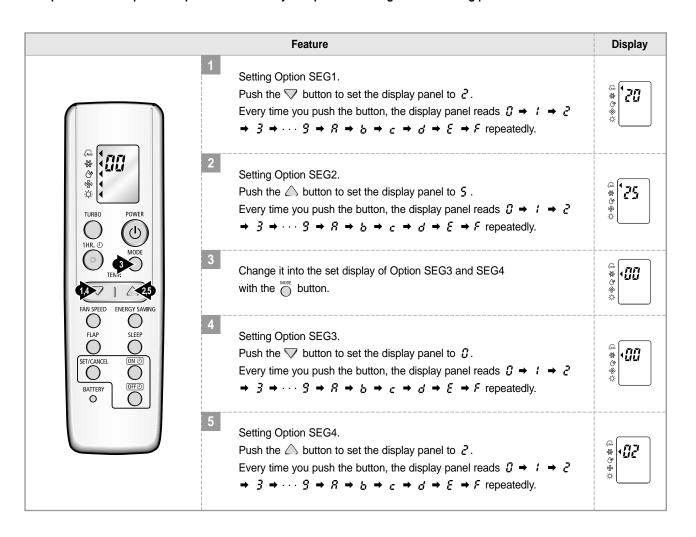
ex) Option No. : 25 02 57 03 40

Step 1 : Enter the Option Setup mode.

- 1st Take out the batteries of remote control.
- 2nd Press the temperature button simultaneously and insert the battery again.
- 3rd Make sure the remocon display shown as



Step 2: Enter the Option Setup mode and select your option according to the following procedure.



	Feature	Display
	Change it into the set display of Option SEG5 and SEG6 with the button.	# ,00
(m) (m)	Setting Option SEG5. Push the button to set the display panel to 5. Every time you push the button, the display panel reads → 1 → 2 → 3 → · · · · · · · · · · · · · · · · ·	# 50 %
TURBO POWER THR. ① MODE SS	Setting Option SEG6. Push the △ button to set the display panel to ?. Every time you push the button, the display panel reads Ø → ! → ∂ → 3 → ··· · · · · · · · · · · · · · · ·	\$ 57
FAAP SLEEP	Change it into the set display of Option SEG7 and SEG8 with the button.	# DU **
	Setting Option SEG7. Push the button to set the display panel to Every time you push the button, the display panel reads → 1 → 2 → 3 → · · · · · · · · · · · · · · · · ·	# 00 **
	Setting Option SEG8. Push the △ button to set the display panel to 3. Every time you push the button, the display panel reads Ø → I → 2 → 3 → ··· · 3 → R → b → c → d → E → F repeatedly.	# 03 * *
TURBO POWER 1HR. ② MODE TEMP	Change it into the set display of Option SEG9 and SEG10 with the button.	# 00
FAN SPEED ENERGY SAVING OFLAP SLEEP	Setting Option SEG9. Push the button to set the display panel to Every time you push the button, the display panel reads → 1 → 2 → 3 → · · · · 3 → R → b → c → d → € → F repeatedly.	# 40 **
	Setting Option SEG10. Push the △ button to set the display panel to 𝔞. Every time you push the button, the display panel reads 𝔞 → 𝔞 → 𝔞 → 𝔞 → ··· · · · · · · · · · · · · · · · ·	# 40 * *

Step 3: Upon completion of the selection, check you made right selections.

Whenever you press the button, the set Option will be displayed.

Step 4: Pressing the ON/OFF button ()

When pressing the operation ON/OFF key with the direction of remote controller for unit, the sound "Ding" is heard and the OPERATION LED lamp is flickering at the same time, then the input of option is completed. (If the "ding" sound isn't heard, try again pressing the ON/OFF button.)

Step 5: Unit operation test-run

First, Remove the battery from the remote controller.

Second, Re-insert the battery into the remote controller.

Third, Press ON/OFF ((b)) key with the direction of remote controller for set.

• Error Mode

- 1s If all lamps of indoor unit are flickering, Plug out, plug in power plug again and press ON/OFF key to retry.
- 2nd If the unit is not working properly or all lamps are continuously flickering after setting the option code, see if the correct option code is set up for its model.

4-2 Table of the option Code

Model		Option Code								
Wodel	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6	SEG7	SEG8	SEG9	SEG10
AQ12WHWE[D]/SH12ZWHD(X)	2	5	0	2	5	7	0	3	4	0
AQ09W8WE/SH09ZW8(X)	2	5	0	2	5	7	0	2	2	E

5. Troubleshooting

Check the basic items first to judge if the problem was caused by breakdown or misuse. If none of the basic items are related to the problem, please scrutinize the machine according to the 'Breakdown Diagnosis by Symptoms' method.

5-1 Basic Breakdown Diagnosis Items

- The input voltage should be rating voltage ±10% range.
 The airconditioner may not operate properly if the voltage is out of this range.
- Is the link cable linking the indoor unit and the outdoor unit linked properly?
 The indoor unit and the outdoor unit shall be linked by 5 cables.
 Check the terminals if the indoor unit and outdoor unit are properly linked by the same number of cables.
 Otherwise the airconditioner may not operate properly.
- When a problem occurs due to the contents illustrated in the table below it is a symptom not related to the malfunction of the airconditioner.

No	Operation of air conditioner	Explanation
1	The OPERATION indication LED(GREEN) blinks when a power plug of the indoor unit is plugged in for the first time.	It indicates power is on. The LED stops blinking if the operation ON/OFF button on the remote control unit is pushed.
2	In a COOL operation mode, the compressor does not operate at a room temperature higher than the setting temperature that the INDOOR FAN should operate. In a HEAT operation mode, the compressor does not operate at a room temperature lower than the setting temperature that indoor fan should operate.	In happens after a delay of 3 minutes when the compressor is reoperated. The same phenomenon occurs when a power is on. As a phenomenon that the compressor is reoperated after a delay of 3 minutes, the indoor fan is adjusted automatically with reference to a temperature of the air blew.
3	Fan speed setting is not allowed in DRY() mode.	The speed of the indoor fan is set to LL in DRY mode. Fan speed is selected automatically in AUTO mode.
4	Compressor stops operation intermittently in DRY($\ensuremath{\mbox{\ensuremath{\mbox{\mathcal{S}}}}}$) mode.	Compressor operation is controlled automatically in DRY mode depending on the room temperature and humidity.
5	Compressor of the outdoor unit is operating although it is turned off in a HEAT mode.	When the unit is turned off while de-ice is activated, the compressor continues operation for up to 9 minutes (maximum) until the deice is completed.
6	Timer LED(GREEN) of the indoor unit lights up and the air conditioner does not operate.	Timer is being activated and the unit is in ready mode. The unit operates normally if the timer operation is cancelled.
7	The compressor and indoor fan stop intermittently in HEAT mode.	The compressor and indoor fan stop intermittently if room temperature exceeds a setting temperature in order to protect the compressor from overheated air in a HEAT mode.
8	Indoor fan and outdoor fan stop operation intermittently in a HEAT mode.	The compressor operates in a reverse cycle to remove exterior ice in a HEAT mode, and indoor fan and outdoor fan do not operate intermittently for within 20% of the total heater operation
9	The compressor stops intermittently in a COOL mode or DRY mode, and fan speed of the indoor unit decreases.	The compressor stops intermittently or the fan speed of the indoor unit decreases to prevent inside/outside air frozen depending on the inside/outside air temperature.

5-2 Trouble check in the initial status

5-2-1 Diagnosis and marking of the part in trouble.

Please check the air conditioner operation status and write the check result in the chart in the room.

	LAMP					
Description	OPERATION	TIMER	TURBO			
	\$	(TURBO			
Indoor unit room temperature sensor error (open or short)	0	•	0			
Indoor unit heat exchanger temperature sensor error (open or short)	•	•	0			
Indoor fan motor mal function	•	0	•			
EEPROM error	0	•	•			
Option error (option wasn't set up or option data error)	•	•	•			

: Lamp off : Lamp flickering

5-2-2 Operation with abnormal motion

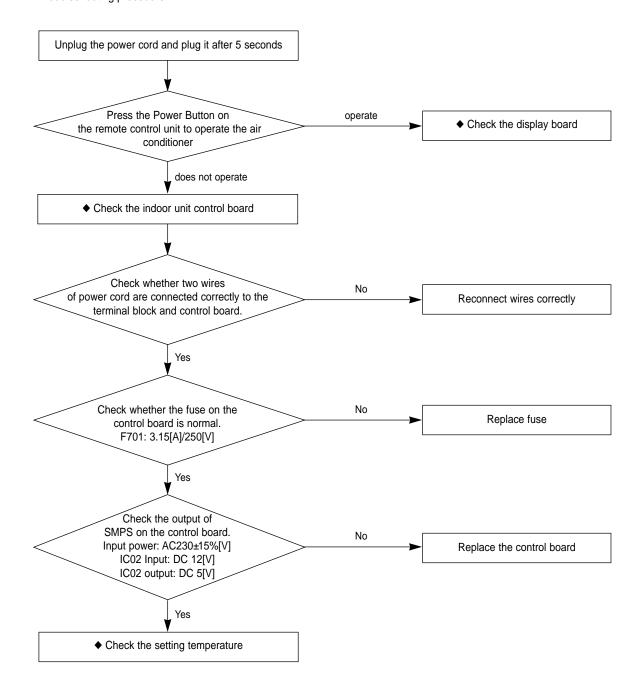
No	Abnormal condition	Inspection		Initial Diagnosis
1	No response from the remote control	Plug out and plug in 5 seconds later.	Able to operate the remote control.	OK
	operation signal.		Unable to operate the remote control.	Press the button in the indoor unit. If it operates, the remote control and indoor unit receiver are in trouble. If not, the indoor unit is in trouble.
2	Unable to operate the outdoor unit	Press the TURBO button with the remote control.	AC200V ~ AC240V	Problem with the outdoor unit or PCB
		 In 3 minutes, check the voltage between the indoor unit terminal block N(1) and 1. 	No power source displayed.	Problem with the relay (RY71) or PCB

5-3 Breakdown diagnosis by symptoms

5-3-1 No Power (completely dead)-Initial diagnosis

- 1. Checklist:
 - 1) Is input voltage normal?
 - 2) Is AC power linked correctly?
 - 3) Is input voltage of DC regulator IC KA7805 (IC02) normal? (11VDC-12.5VDC)
 - 4) Is output voltage of DC regulator IC KA7805 (IC02) normal? (4.5VDC-5.5VDC)

2. Troubleshooting procedure

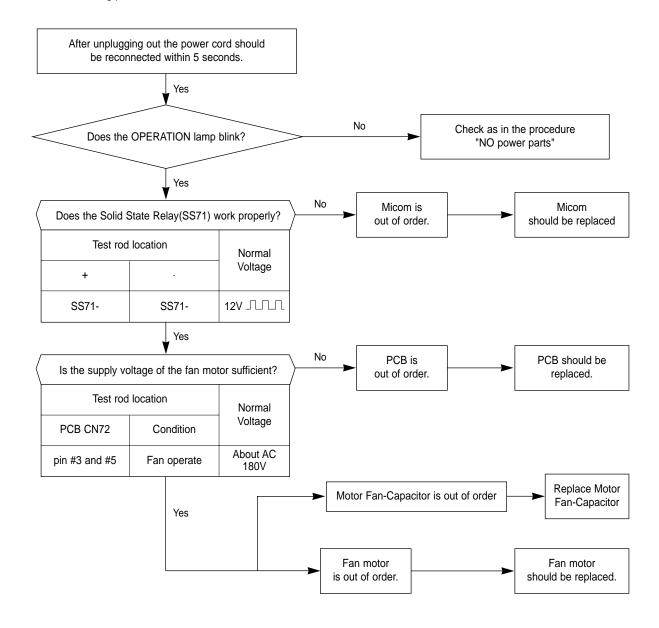


5-3-2 When the Indoor Unit Fan Does Not Operate. (Initial Diagnosis)

1. Checklist:

- 1) Is the indoor unit fan motor properly connected with the connector (CN72)?
- 2) Is the AC voltage correct?
- 3) Is HALL IC in indoor fan motor properly connected with the connector (CN44)?
- 4) Is the running capacitor (CR71) properly connected with PCB board?

2. Troubleshooting procedure

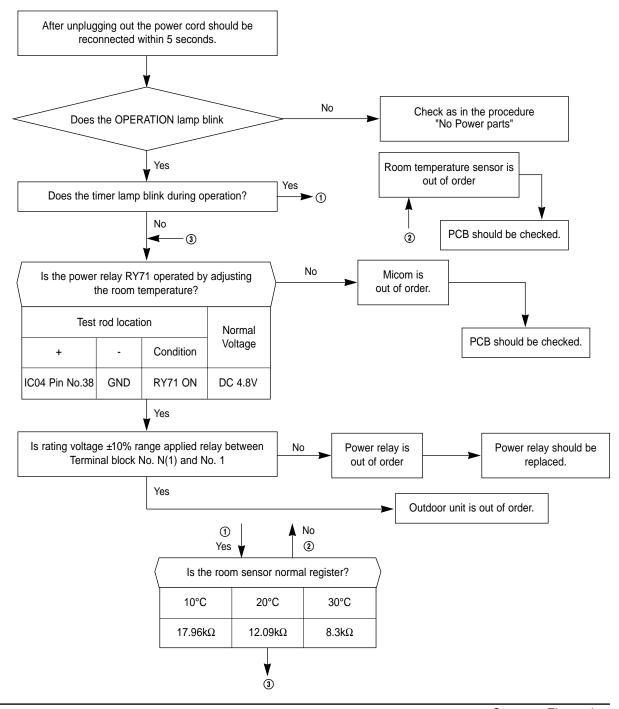


5-3-3 When the Outdoor Unit Does Not Operate. (Initial Diagnosis)

1. Checklist:

- 1) Is input voltage normal?
- 2) Is the set temperature of the remote control higher than room temperature in COOL mode?
- 3) Is the set temperature of the remote control lower than room temperature in HEAT mode?
- 4) Is the POWER IN connector (CN71) linked correctly?
- 5) Is the outdoor unit properly connected with the TERMINAL BLOCK connector(N(1), 1, 2, 3)?

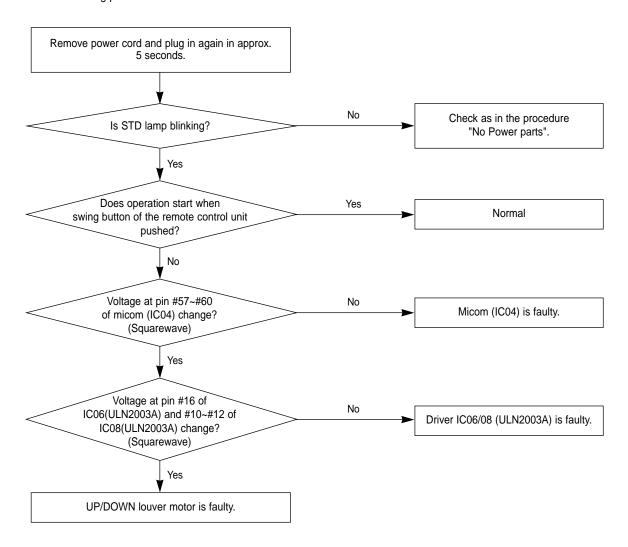
2. Troubleshooting procedure



5-3-4 When the UP/DOWN Louver Motor Does Not Operate. (Initial Diagnosis)

- 1. Checklist:
 - 1) Is input voltage normal?
 - 2) Is the UP/DOWN louver motor properly connected with the connector (CN61)?

2. Troubleshooting procedure

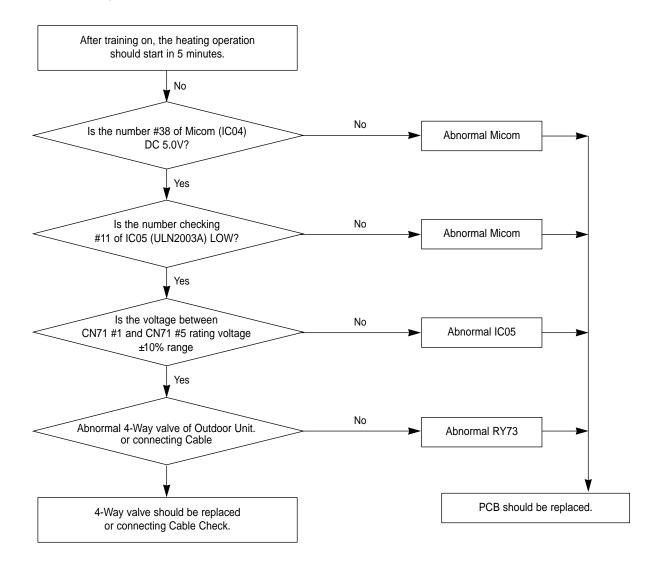


5-3-5 In the HEAT mode, When there is no warm air current. Check this fist;

1. Checklist:

- 1) Is the set temperature of Remote Control lower than room temperature in Heat mode?
- 2) Is the Indoor PCB properly connected with the CN71 connector?

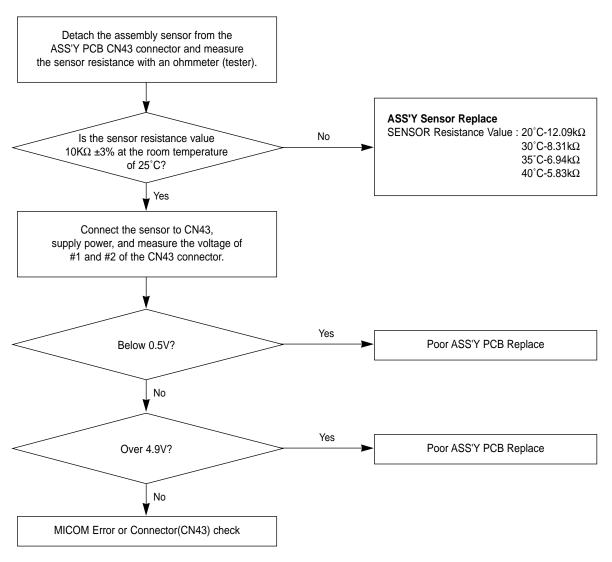
2. Troubleshooting procedure



5-3-6 Room temperature sensor failure

	LAMP			
Description	OPERATION	TIMER	TURBO	
	\$	④	TURBO	
Indoor unit room temperature sensor error(open or short)	0	•	0	

: Lamp off : Lamp flickering



5-3-7 Room Pipe sensor failure

	LAMP			
Description	OPERATION	TIMER	TURBO	
	\$	④	TURBO	
Indoor unit heat exchanger temperature sensor error (open or short)	•	•	0	

: Lamp off : Lamp flickering

- 1. Check the assembly condition of the sensor connector(CN43) on the indoor unit Main PCB and if not assembled, reassemble the connector accurately.
- 2. Detach the room pipe sensor connector(CN43) and check the resistance between connector 3 and 4.

Temperature(°C)	Resistance Value(Kohm)	Temperature(°C)	Resistance Value(Kohm)	Others
15	14.68	30	8.31	
20	12.09	35	6.94	The data tolerance is ±3%.
25	10	40	5.83	

If the above data is not met, replace the room pipe sensor.

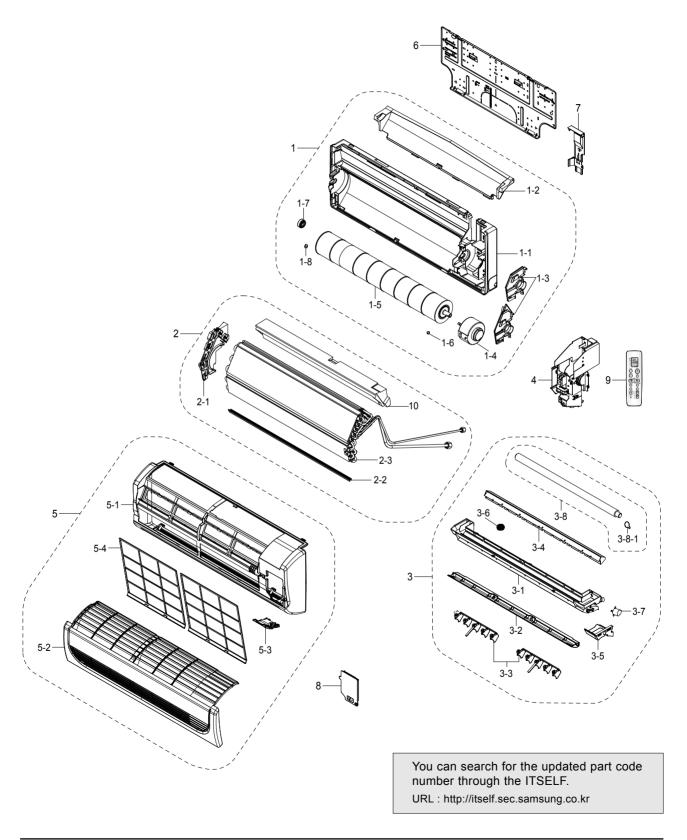
3. Assemble the room pipe sensor to PCB, plug in, and check the voltage of connector 3 and 4. If the resistance is below 0.5V or over 4.9V, replace the indoor Main PCB. (short or disconnected in the PCB board)

5-3-8 When the remote control is not receiving.

- 1. Check if the connector was normally assembled.
- 2. Put the set in operation and check the voltage of No. 3(+) and No. 2(-) of the main PCB CN91 while operating the remote control. When the voltage descends below 3V, the assembly module PCB is normal and the main PCB is poor. Then replace the main PCB.
- 3. Replace the assembly display PCB because the module PCB is poor if the voltage between No. 2~3 of CN91 maintains 5V after the remote control starts operation.

6. Exploded Views and Parts List

6-1 Indoor Unit

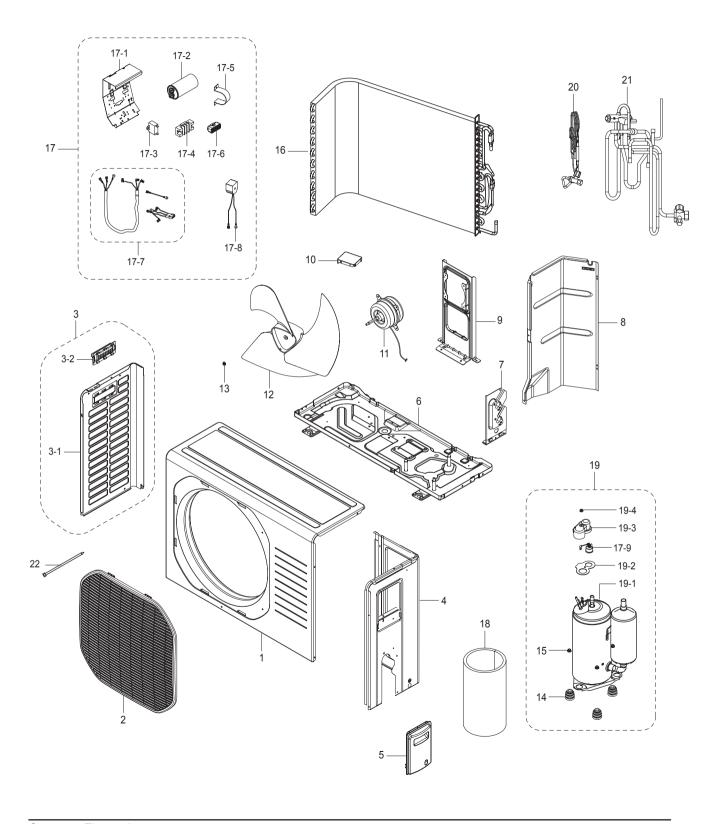


N.	Ondo No	Description	On a sification	Q"	TY	Damada
No.	Code No.	Description	Specification	AQ12WHWE[D]	SH12ZWHD	Remark
1	DB94-00454B	ASS'Y-BACK BODY	ASS'Y	1	1	
1-1	DB61-01632A	BACK-BODY	HIPS	1	1	
1-2	DB69-00834A	CUSHION-BACK BODY	EPS	1	1	
1-3	DB61-01634A	SUPPORTER-EVAP RH	HIPS	1	1	
	DB61-01633A	SUPPORTER-EVAP RH	HIPS	-	-	
1-4	DB31-00219A	MOTOR-IN	YDK-016S1408-01	1	1	
1-5	DB94-00456A	ASS'Y-CROSS FAN	OD92x635	1	1	
1-6	DB97-02075A	ASS'Y BOLT-SPECIAL	ASS'Y	1	1	
1-7	DB73-00181A	RUBBER-BEARING	RUBBER	1	1	
1-8	DB94-40007A	MOLD-BEARING	BEARING	1	1	
2	DB96-03112C	ASS'Y CYCLE IN	ASS'Y	1	1	
	DB96-02361E	ASS'Y CYCLE IN	ASS'Y	-	-	
2-1	DB63-00850A	COVER BEARING	ABS	1	1	
2-2	DB60-00118A	SPACE-EVAP-LOW	PVC	1	1	
2-3	DB96-03060A	ASS'Y-EVAP	SS-PJT,SSEC,12K	1	1	
	DB96-03171 A	ASS'Y-EVAP	SS-PJT,SSEC,9K	-	-	
3	DB94-00457D	ASS'Y-TRAY DRAIN	ASS'Y	1	1	
3-1	DB63-00848A	TRAY-DRAIN	ABS	1	1	
3-2	DB61-01635A	BLADE-H	HIPS	1	1	
3-3	DB61-01636A	BLADE-V	PP	2	2	
3-4	DB63-00849A	TRAY-STABILIZER	ABS	1	1	
3-5	DB69-00839A	CUSHION EPS-TRAY RH	EPS30	1	1	
3-6	DB73-00180A	RUBBER-CAP	GUM-EPM	1	1	
3-7	DB95-20138A	ASS'Y-STEPPING-MOTOR	PM24-600g, 24BYJ48	1	1	
3-8	DB94-00458B	ASS'Y DRAIN HOSE	ASS'Y	1	1	
3-8-1	DB61-01715A	CLIP TERMINAL HOSE	STS, PI1.0	1	1	
4	DB93-02481S	ASS'Y-CONTROL IN	ASS'Y	1	1	
5	DB92-00536D	ASS'Y-PANEL FRONT	ASS'Y	1	1	Except Europe
5-1	DB64-00989A	PANEL-FRONT	PS	1	1	
5-2	DB64-00990A	GRILLE-AIR INLET	HIPS	1	1	
5-3	DB97-02064A	ASS'Y-COVER DISPLAY	ASS'Y	1	1	
5-4	DB63-00846B	GUARD-AIR FILTER	PP	2	2	
6	DB70-00406A	PLATE-HANGER	SGCC-M T0.6x320x650	1	1	
7	DB61-01638A	HOLDER-PIPE	PS	1	1	
8	DB63-00844A	COVER TERMINAL	ABS-V0	1	1	
9	DB93-03012B	ASS'Y-REMOCON	ARH-1403	1	1	
10	DB69-00833A	CUSHION-EVAP UP	EPS,30; SSEC	-	-	
			,,			

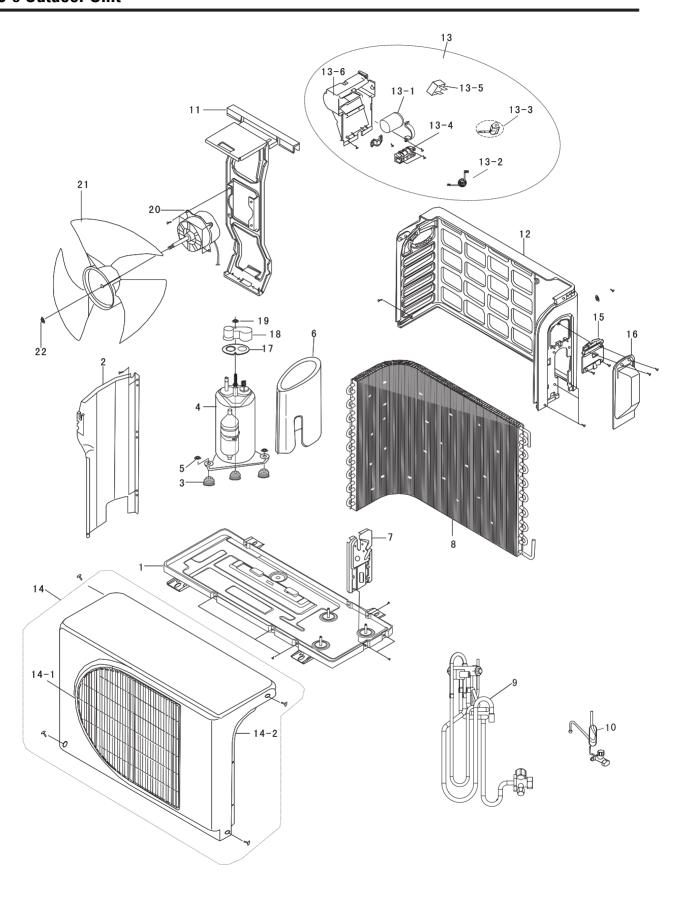
No.	Code No.	Description	Specification	Q	TY	Remark
NO.	Code No.	Description	Specification	AQ09W8WE	SH09ZW8	nemark
1	DB94-00454B	ASS'Y-BACK BODY	ASS'Y	1	1	
1-1	DB61-01632A	BACK-BODY	HIPS	1	1	
1-2	DB69-00834A	CUSHION-BACK BODY	EPS	1	1	
1-3	DB61-01634A	SUPPORTER-EVAP RH	HIPS	-	-	
	DB61-01633A	SUPPORTER-EVAP RH	HIPS	1	1	
1-4	DB31-00219A	MOTOR-IN	YDK-016S1408-01	1	1	
1-5	DB94-00456A	ASS'Y-CROSS FAN	OD92x635	1	1	
1-6	DB97-02075A	ASS'Y BOLT-SPECIAL	ASS'Y	1	1	
1-7	DB73-00181A	RUBBER-BEARING	RUBBER	1	1	
1-8	DB94-40007A	MOLD-BEARING	BEARING	1	1	
2	DB96-03112C	ASS'Y CYCLE IN	ASS'Y	-	-	
	DB96-02361E	ASS'Y CYCLE IN	ASS'Y	1	1	
2-1	DB63-00850A	COVER BEARING	ABS	1	1	
2-2	DB60-00118A	SPACE-EVAP-LOW	PVC	1	1	
2-3	DB96-03060A	ASS'Y-EVAP	SS-PJT,SSEC,12K	-	-	
	DB96-03171 A	ASS'Y-EVAP	SS-PJT,SSEC,9K	1	1	
3	DB94-00457D	ASS'Y-TRAY DRAIN	ASS'Y	1	1	
3-1	DB63-00848A	TRAY-DRAIN	ABS	1	1	
3-2	DB61-01635A	BLADE-H	HIPS	1	1	
3-3	DB61-01636A	BLADE-V	PP	2	2	
3-4	DB63-00849A	TRAY-STABILIZER	ABS	1	1	
3-5	DB69-00839A	CUSHION EPS-TRAY RH	EPS30	1	1	
3-6	DB73-00180A	RUBBER-CAP	GUM-EPM	1	1	
3-7	DB95-20138A	ASS'Y-STEPPING-MOTOR	PM24-600g, 24BYJ48	1	1	
3-8	DB94-00458B	ASS'Y DRAIN HOSE	ASS'Y	1	1	
3-8-1	DB61-01715A	CLIP TERMINAL HOSE	STS, PI1.0	1	1	
4	DB93-02481S	ASS'Y-CONTROL IN	ASS'Y	1	1	
5	DB92-00536D	ASS'Y-PANEL FRONT	ASS'Y	1	1	Except Europe
5-1	DB64-00989A	PANEL-FRONT	PS	1	1	
5-2	DB64-00990A	GRILLE-AIR INLET	HIPS	1	1	
5-3	DB97-02064A	ASS'Y-COVER DISPLAY	ASS'Y	1	1	
5-4	DB63-00846B	GUARD-AIR FILTER	PP	2	2	
6	DB70-00406A	PLATE-HANGER	SGCC-M T0.6x320x650	1	1	
7	DB70-00400A	HOLDER-PIPE	PS	1	1	
					1	
8	DB63-00844A	COVER TERMINAL	ABS-V0	1	1	
9	DB93-03012B	ASS'Y-REMOCON	ARH-1403	1	1	
10	DB69-00833A	CUSHION-EVAP UP	EPS,30 ; SSEC	1		

	O. J. N.	B	0	Q'TY	D
No.	Code No.	Description	Specification	SH12ZWHD	Remark
1	DB94-00454B	ASS'Y-BACK BODY	ASS'Y	1	
1-1	DB61-01632A	BACK-BODY	HIPS	1	
1-2	DB69-00834A	CUSHION-BACK BODY	EPS	1	
1-3	DB61-01634A	SUPPORTER-EVAP RH	HIPS	1	
	DB61-01633A	SUPPORTER-EVAP RH	HIPS	-	
1-4	DB31-00219A	MOTOR-IN	YDK-016S1408-01	1	
1-5	DB94-00456A	ASS'Y-CROSS FAN	OD92x635	1	
1-6	DB97-02075A	ASS'Y BOLT-SPECIAL	ASS'Y	1	
1-7	DB73-00181A	RUBBER-BEARING	RUBBER	1	
1-8	DB94-40007A	MOLD-BEARING	BEARING	1	
2	DB96-03112C	ASS'Y CYCLE IN	ASS'Y	1	
	DB96-02361E	ASS'Y CYCLE IN	ASS'Y	-	
2-1	DB63-00850A	COVER BEARING	ABS	1	
2-2	DB60-00118A	SPACE-EVAP-LOW	PVC	1	
2-3	DB96-03060A	ASS'Y-EVAP	SS-PJT,SSEC,12K	1	
	DB96-03171 A	ASS'Y-EVAP	SS-PJT,SSEC,9K	-	
3	DB94-00457D	ASS'Y-TRAY DRAIN	ASS'Y	1	
3-1	DB63-00848A	TRAY-DRAIN	ABS	1	
3-2	DB61-01635A	BLADE-H	HIPS	1	
3-3	DB61-01636A	BLADE-V	PP	2	
3-4	DB63-00849A	TRAY-STABILIZER	ABS	1	
3-5	DB69-00839A	CUSHION EPS-TRAY RH	EPS30	1	
3-6	DB73-00180A	RUBBER-CAP	GUM-EPM	1	
3-7	DB95-20138A	ASS'Y-STEPPING-MOTOR	PM24-600g, 24BYJ48	1	
3-8	DB94-00458B	ASS'Y DRAIN HOSE	ASS'Y	1	
3-8-1	DB61-01715A	CLIP TERMINAL HOSE	STS, PI1.0	1	
4	DB93-02481S	ASS'Y-CONTROL IN	ASS'Y	1	
5	DB92-00536B	ASS'Y-PANEL FRONT	ASS'Y	1	For Europe
5-1	DB64-00989A	PANEL-FRONT	PS	1	
5-2	DB64-00990A	GRILLE-AIR INLET	HIPS	1	
5-3	DB97-02064A	ASS'Y-COVER DISPLAY	ASS'Y	1	
5-4	DB63-00846B	GUARD-AIR FILTER	PP	2	
6	DB70-00406A	PLATE-HANGER	SGCC-M T0.6x320x650	1	
7	DB61-01638A	HOLDER-PIPE	PS	1	
8	DB63-00844A	COVER TERMINAL	ABS-V0	1	
9	DB93-03012B	ASS'Y-REMOCON	ARH-1403	1	
10	DB69-00833A	CUSHION-EVAP UP	EPS,30; SSEC	-	
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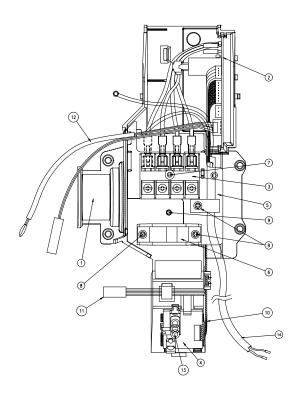
No.	Code No.	Description	Specification	Q'	TY	Remark
NO.	Code No.	Description	Specification	SH09ZW8		Hemark
1	DB94-00454B	ASS'Y-BACK BODY	ASS'Y	1		
1-1	DB61-01632A	BACK-BODY	HIPS	1		
1-2	DB69-00834A	CUSHION-BACK BODY	EPS	1		
1-3	DB61-01634A	SUPPORTER-EVAP RH	HIPS	-		
	DB61-01633A	SUPPORTER-EVAP RH	HIPS	1		
1-4	DB31-00219A	MOTOR-IN	YDK-016S1408-01	1		
1-5	DB94-00456A	ASS'Y-CROSS FAN	OD92x635	1		
1-6	DB97-02075A	ASS'Y BOLT-SPECIAL	ASS'Y	1		
1-7	DB73-00181A	RUBBER-BEARING	RUBBER	1		
1-8	DB94-40007A	MOLD-BEARING	BEARING	1		
2	DB96-03112C	ASS'Y CYCLE IN	ASS'Y	-		
	DB96-02361E	ASS'Y CYCLE IN	ASS'Y	1		
2-1	DB63-00850A	COVER BEARING	ABS	1		
2-2	DB60-00118A	SPACE-EVAP-LOW	PVC	1		
2-3	DB96-03060A	ASS'Y-EVAP	SS-PJT,SSEC,12K	-		
	DB96-03171 A	ASS'Y-EVAP	SS-PJT,SSEC,9K	1		
3	DB94-00457D	ASS'Y-TRAY DRAIN	ASS'Y	1		
3-1	DB63-00848A	TRAY-DRAIN	ABS	1		
3-2	DB61-01635A	BLADE-H	HIPS	1		
3-3	DB61-01636A	BLADE-V	PP	2		
3-4	DB63-00849A	TRAY-STABILIZER	ABS	1		
3-5	DB69-00839A	CUSHION EPS-TRAY RH	EPS30	1		
3-6	DB73-00180A	RUBBER-CAP	GUM-EPM	1		
3-7	DB95-20138A	ASS'Y-STEPPING-MOTOR	PM24-600g, 24BYJ48	1		
3-8	DB94-00458B	ASS'Y DRAIN HOSE	ASS'Y	1		
3-8-1	DB61-01715A	CLIP TERMINAL HOSE	STS, PI1.0	1		
4	DB93-02481S	ASS'Y-CONTROL IN	ASS'Y	1		
5	DB92-00536B	ASS'Y-PANEL FRONT	ASS'Y	1		For Europe
5-1	DB64-00989A	PANEL-FRONT	PS	1		
5-2	DB64-00990A	GRILLE-AIR INLET	HIPS	1		
5-3	DB97-02064A	ASS'Y-COVER DISPLAY	ASS'Y	1		
5-4	DB63-00846B	GUARD-AIR FILTER	PP	2		
6	DB70-00406A	PLATE-HANGER	SGCC-M T0.6x320x650	1		
7	DB61-01638A	HOLDER-PIPE	PS	1		
8	DB63-00844A	COVER TERMINAL	ABS-V0	1		
9	DB93-03012B	ASS'Y-REMOCON	ARH-1403	1		
9 10	DB93-03012B DB69-00833A	CUSHION-EVAP UP	EPS,30 ; SSEC	1		
10	DD03-00033A	OGGINGIN-LVAL UF	LI 0,00 , 00L0	'		

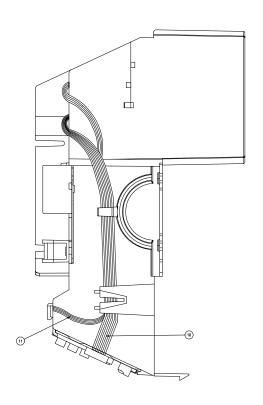


No.	Codo No	Description	Cassification	Q'T	ſΥ
No.	Code No.	Description	Specification	UQ12WHWE[D]	SH12ZWHDX
1	DB90-01341A	ASS'Y-CABI FRONT	T0.7, SECD-P	1	1
2	DB63-00847A	GUARD-FAN	PP, 378g	1	1
3	DB90-01332A	ASS'Y CABI SIDE LF	ASS'Y	1	1
3-1	DB64-01094A	CABI SIDE LF(COATING)	T0.6, SECC-P	1	1
3-2	DB64-00992A	HANDLE LF	PP, 30g	1	1
4	DB90-01546B	ASS'Y CABI SIDE RH	T0.6, SECC-P	1	1
5	DB63-00853A	COVER-CONTROL	ABS-V0, 66g	1	1
6	DB90-01330E	ASS'Y-BASE	T1.0, SECC-P	1	1
7	DB99-00401A	ASS'Y BRACKET VALVE	SECC-P, T1.0x95x235	1	1
8	DB94-00668A	ASS'Y-PARTITION	ASS'Y, SGCC-M, T0.6	1	1
9	DB61-01644A	BRACKET-MOTOR	SGCC-M T0.6x370x490	1	1
10	DB97-02225A	ASS'Y PLATE SUPPORT B/M	ASS'Y	1	1
11	DB31-00220A	MOTOR-OUT	YDK-25F6M13E-1	1	1
12	DB67-00397A	PROPELLER-FAN	AS+G/F 20%, 422g	1	1
13	DB60-30004A	NUT FLANGE		1	1
14	DB63-00815A	GROMMET	NR	3	3
15	DB60-30028A	NUT WASHER		3	3
16	DB96-03861A	ASS'Y-COND	2x24, FP1.5, LOUVER	1	1
17	DB93-02748G	ASS'Y-CONTROL OUT	ASS'Y	1	1
17-1	DB61-01642A	CASE-CONTROL OUT	SGCC-M T0.6x150x250	1	1
17-2	2501-001236	CAPACITOR-COMP	30μFx450V	1	1
17-3	2301-001375	CAPACITOR-MOTOR	1.5µFx450V	1	1
17-4	DB65-40049E	TERMINAL-BLOCK		1	1
17-5	DB65-10046A	CLIP-CAPACITOR		1	1
17-6	DB61-00250A	HOLDER-WIRE		1	1
17-7	DB93-00481H	ASS'Y LEAD WIRE		1	1
17-8	DB33-00050A	SOLENOID-ASS'Y	WIRE, ASS'Y	1	1
17-9	DB35-00036M	OLP	RBC12074-12500	1	1
18	DB72-00726E	SPONGE-FELT COMP CLOTH	FELT+PVC	1	1
19	DB95-00610C	ASS'Y-COMP	122111 40	1	1
19-1	48D129JUAEL	COMP		1	1
19-2	DB63-00765A	GASKET			1
19-3	DB63-00762A	COVER-TERMINAL		1	1
19-4	DB60-30001A	NUT FLANGE	M5	1	1
20	DB96-03858A	ASS'Y CHECK VALVE	ASS'Y ; AQ12WHWE/AFR	1	1
21	DB96-03858A DB99-00562B	ASS'Y CHECK VALVE	ASSY; AQ12WHWE/AFR	1	1
22	DB65-10088C	CABLE-TIE	A00 I	1	1
	2200 100000	,		'	•



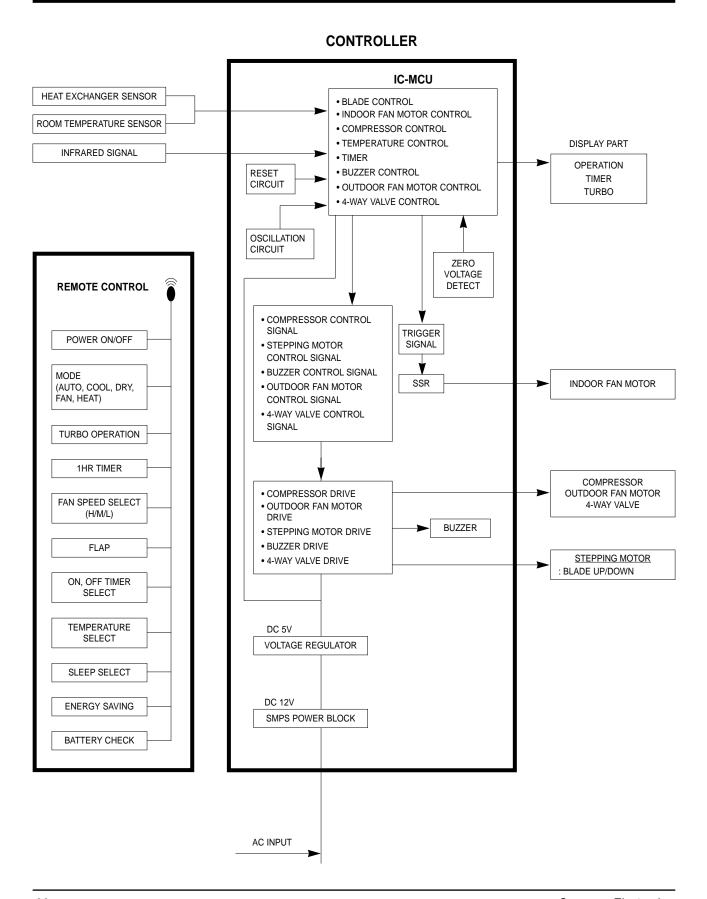
No.	Code No.	Description	Specification	Q'	ГҮ
110.	COUE NO.	Description	opeomoation	UQ09W8WE	SH09ZW8X
1	DB90-01281A	ASSY BASE-OUTDOOR	ASSY	1	1
2	DB94-00431B	ASSY PARTITION	ASSY	1	1
3	DB63-00763A	ISOLATOR GROMMET	44A ; NR35	3	3
4	44B102JXAEL	R/COMP, SSEC	ROTARY; SSEC	1	1
5	DB60-30028A	SCREW-MACHINE	,	3	3
6	DB72-00720A	SPONGE-COMP SIDE	T10.0 ; ACTIVE P/J 9K	1	1
7	DB61-01651A	BRACKET-VALVE	T1.6; SGCC-M	1	1
8	DB96-02973A	ASSY COND	ASSY	1	1
9	DB99-00596A	ASSY VALVE 4 WAY	ASSY	1	1
10	DB96-04375B	ASSY TUBE CAPILLARY	ASS'Y	1	1
11	DB90-01279A	ASSY BRACKET MOTOR	ASSY; SGCC-M,T1.2	1	1
12	DB90-01278B	ASSY CABINET SIDE	ASS'Y; PP,T2.5	1	1
13	DB93-02505F	ASSY CONTROL OUT	ASSY	1	1
13-1	2501-001237	C-OIL	35uF,450V,BK,53x95mm,20.6	1	1
13-2	DB35-00036H	O.L.P , RBC12188-12500	ST17.0A/150,UT7.5A/69	1	1
13-3	DB33-00050A	SOLENOID COIL	220-240V ; 50/60HZ ; SSEC	3	3
13-4	DB65-40049E	TERMINAL BLOCK	(N1),1,2,3,AWG16,6	3	3
13-5	2301-001375	C-FILM	1500nF,+10-5%,450V	1	1
13-6	DB61-01196A	CASE CONTROL OUT	PP, V0, BLK	1	1
14	DB90-01277A	ASSY CABI-FRONT	ASSY	1	1
14-1	DB63-00099A	GUARD FAN-WIRE	HSWR,T2.5,SC-99445	1	1
14-2	DB64-00086A	CABINET-FRONT	PP,T2.5	1	1
15	DB90-01280A	ASSY COVER CONTROL	ASSY; HIPS,T2.0,	1	1
16	DB94-00430B	ASSY COVER VALVE	ASSY;-,PP,T2.0	1	1
17	DB63-00765A	GASKET		1	1
18	DB63-00762A	COVER TERMIANL		1	1
19	DB60-30020A	NUT FLANGE	ASS025WTVA,AC,220V/240V	1	1
20	DB31-00034A DB67-00036A	MOTOR FAN OUT FAN-PROPELLER	AS+GF 20%,BLK	1	1
21 22		NUT FLANGE	FELT+PVC	1	·
22	DB60-30020A	NOTTERNOL	FELITFYC	I	1





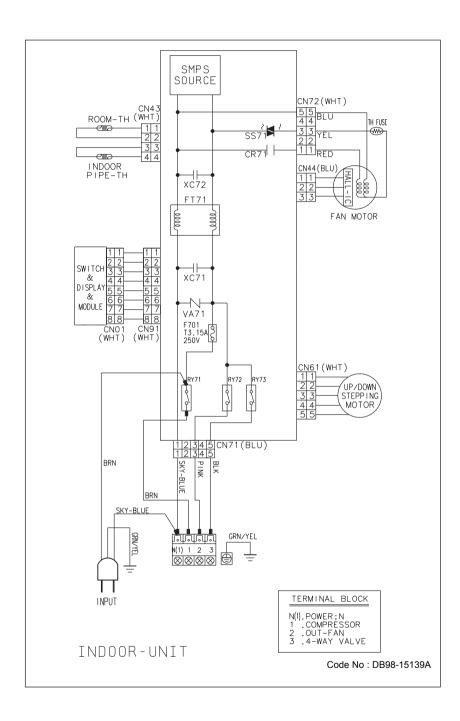
No.	Code No.	Description	Specification	Q'TY	Remark
1	DB61-01637A	CASE-CONTROL	ABS	1	
2	DB93-02482A	ASS'Y PCB MAIN	FR-4, 120x90	1	
3	DB65-00140A	ASS'Y TERMINAL BLOCK	4P	1	
4	DB93-02483A	ASS'Y S/W & MODULE & DISPLAY PCB	FR-1, 30x70	1	
5	DB61-01639A	PLATE-CONTROL	SGCC-M, T1-2	1	
6	DB61-00171A	HOLDER-WIRE CLAMP	ABS	1	
7	6001-000929	SCREW-MACHINE	PH M3xL22	1	SNA
8	6001-000725	SCREW-MACHINE	TH M4xL16	2	SNA
9	6001-001054	SCREW-MACHINE	TH M4xL10	1	SNA
10	DB39-00949A	CONNECTOR WIRE S/W & MODULE & DISPLAY	8P	1	
11	DB39-00147A	CONNECTOR WIRE STEP MOTOR UP/DOWN	5P	1	
12	DB32-00020D	ASS'Y THERMISTOR WIRE	4P(103AT)	1	
13	DB63-00851A	COVER CLAMP	HIPS	1	
14	DB93-01549F	POWER CORD	3P	1	

7. Block Diagram

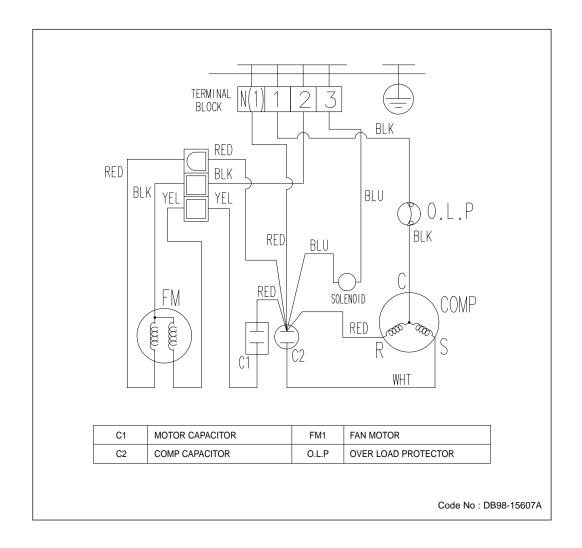


8. Wiring Diagram

8-1 Indoor Unit



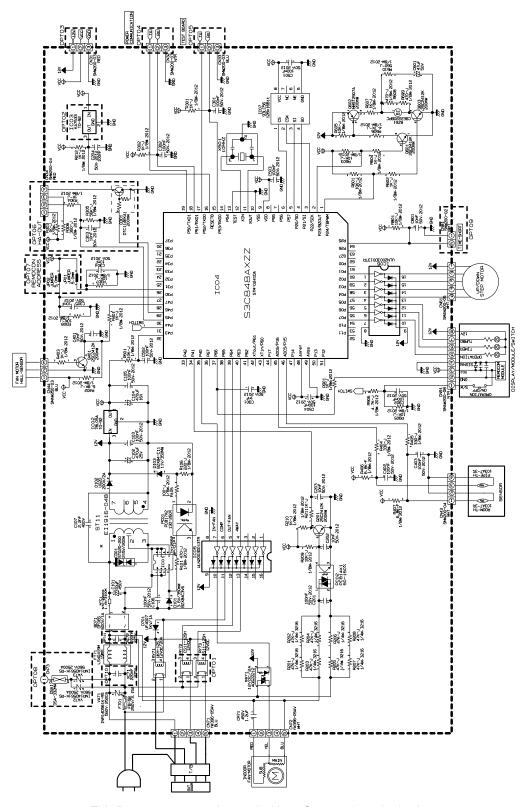
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9. Schematic Diagram

9-1 Indoor Unit



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